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## PLEASE AMEND THE ABOVE-IDENTIFIED APPLICATION AS FOLLOWS:

In The Claims:

Agu new claims 313-329 as lonows.

-- 513. (NEW) The process according to claim 284, wherein said nucleic acid of interest comprises a member selected from the group consisting of *Streptococcus pyrogenes*, *Neisseria meningitidis*, *Staphylococcus aureus*, *Candida albicans*, *Pseudomonas aeruginosa*, *Neisseria gonorrhoeae*, *Mycobacterium tuberculosis*, and any combinations of the foregoing. --

-- 514. (NEW) The process according to claim 284, wherein said one or more oligo- or polynucleotides comprise a member selected or derived from the group consisting of Streptococcus pyrogenes, Neisseria meningididis, Staphylococcus aureus, Candida albicans, Pseudomonas aeruginosa, Neisseria gonorrhoeae, Mycobacterium tuberculosis, and any combinations of the foregoing. --

-- 515. (NEW) The process according to claim 337, wherein said labeled oligo- or polynucleotide of interest comprises a member selected or derived from the group consisting of Streptococcus pyrogenes, Neisseria meningitidis, Staphylococcus aureus, Candida albicans, Pseudomorias aeruginosa, Neisseria gonorrhoeae, Mycobacterium tuberculosis, and any combinations of the foregoing. --

-- 516. (NEW) The process according to claim 396, wherein said nucleic acid of interest comprises a member selected or derived from the group consisting of Streptococcus pyrogenes, Neisseria meningitidis, Staphylococcus aureus, Candida albicans, Pseudomonas aeruginosa, Neisseria gonorrhoeae, Mycobacterium tuberculosis, and any combinations of the foregoing. --

-- 517. (NEW) The process according to claim 513, wherein said nucleic acid of interest comprises *Neisseria gonorrhoeae*. --

-- 518. (NEW) The process according to claim 514, wherein said one or more oligo- or polynucleotides comprise *Neisseria gonorrhoeae*. --

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-- 519. (NEW) The process according to claim 323, wherein said bacterium is Neisseria gonorrhoeae and said antibiotic is selected from the group consisting of penicillin, tetracycline, aminoglycoside and combinations thereof. --

-- 520. (NEVV) A process for determining the sequence of a nucleic acid of interest, comprising the steps of:

providing or generating labeled nucleic acid fragments complementary to said nucleic acid of interest or to a portion thereof, each of said labeled fragments comprising one or more modified nucleotides which comprise detectable or self-indicating labels and said one or more modified nucleotides being modified on the sugar, phosphate or base moieties thereof;

detecting the labeled nucleic acid fragments within a sequencing gel; and determining the sequence of said nucleic acid of interest. --

521. (NEW) A process for determining the sequence of a nucleic acid of interest, comprising the step of detecting within a sequencing gel one or more labeled nucleic acid fragments complementary to said nucleic acid of interest or to a portion thereof, each of said labeled fragments comprising one or more modified nucleotides which comprise detectable or self-indicating labels, said one or more modified nucleotides being modified on the sugar, phosphate or base moieties thereof. --

-- 522. (NEW) The process according to claims 520 or 521, wherein said modified nucleotide or nucleotides comprise a member selected from the group consisting of:

(i) a nucleotide having the formula

wherein

PM is a phosphate moiety,

SM is a furanose moiety,

BASE is a pyrimidine, purine 7-deazapurine, and

Sig is a detectable moiety,

wherein PM is attached to the furanose moiety SM at a position selected from the group consisting of the 2', the 3' and the 5' position, or any combination thereof, BASE is attached to the 1' position of SM from the  $N^1$  position when BASE is a pyrimidine or the  $N^9$  position when BASE is a purine or a 7-deazapurine, and Sig is covalently attached to BASE at a position

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other than the C<sup>5</sup> position when BASE is a pyrimidine, at a position other, than the C8 position when BASE is a purine, and at a position other than the C<sup>7</sup> position when BASE is a 7-deazapurine;

(II) a nucleotide naving the formula

Sig

PM-SM-BASE

wherein

PM is a phosphate moiety,

SM is a furanose moiety,

BASE is a pyrimidine, purine or 7-deazapy/rine, and

Sig is a detectable moiety,

said PM being attached to the furanose molety SM at a position selected from the group consisting of the 2', 3', and 5' positions, or any combination thereof, said BASE being attached to the 1' position of SM from the N1 position when BASE is a pyrimidine/or the N<sup>9</sup> position when BASE is a purine or 7-deazapurine, and Sig is covalently attached to SM directly or through a linkage group; and

(iii) a nucleotide having the formula

Sig-PM-SM-BASE

wherein

PM is a phosphate moiety,

SM is a furanose moiety,

BASE is/a pyrimidine, purine or 7-deazapurine, and

Sig is/detectable moiety,

wherein PM is attached to the furanose moiety SM at a position selected from the group consisting of the 2', the 3' and the 5' position, or any compination thereof, BASE is attached to the 1' position of SM from the N' position when BASE is a pyrimidine or the N<sup>9</sup> position when BASE is a purine, and Sig is covalently attached to PM. --

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-- 523. (NEW) The process according to claims 520 or 521, wherein said modified nucleotide Sig

PM-SM-BASE

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PM is a phosphate moiety,

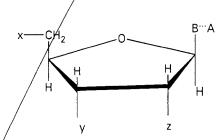
SM is a furanose moiety,

BASE is a pyrimidine, purine or 7-deazapurine, and

Sig is a detectable moiety,

said PM being attached to the furanose moiety SM at a position selected from the group consisting of the 2', 3', and 5' positions, or any combination thereof, said BASE being attached to the 1' position of SM from the N¹ position when BASE is a pyrimidine or the N³ position when BASE is a purine or 7-deazapurine, and Sig is covalently attached to SM directly or through a linkage group; and

-- 524. (NEW) The process according to claims 520 or 521, wherein said modified nucleotide or nucleotides have the structure:



wherein B represents a purine, a 7-deazapurine or a pyrimidine moiety suitable for incorporation into a polynucleotide and covalently bonded to the C¹-position of the furanose moiety, provided that when B is a purine or 7-deazapurine, the furanose moiety is attached at the N³ position of the purine or deazapurine, and when B is a pyrimidine, the furanose moiety is attached at the N¹ position of the pyrimidine;

wherein A represents at least three carbon atoms and is an indicator molecule that is self-indicating;

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Guly Dist wherein B and A are covalently attached directly or through a linkage group, said linkage group not interfering substantially with detection of A;

wherein if B is a purine, A is attached to the 8-position of the purine, if B is a 7-deazapurine, A is attached to the 7-position of the deazapurine, and if B is a pyrimidine, A is attached to the 5-position of the pyrimidine; and

wherein x comprises a member selected from the group consisting of:

wherein y comprises a member selected from the group consisting of:

wherein z comprises a member selected from the group consisting of H- and HO-.

-- 525. (NEW) The process according to claim 520, wherein the detecting step comprises localizing said labeled nucleic acid or said labeled nucleic acid fragments by means of self-indicating nucleotide or nucleotides. --

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-- 526. (NEW) The process according to claims 520 or 521, wherein said nucleic acid of interest comprises or is derived from *Neisseria gonorrhoeae*. --

-- 527. (NEW) The process according to claim 332, wherein y and z comprise H. --

-- 528. (NEW) The process according to claim 348, wherein y and z comprise H. --

-- 529. (NEW) The process according to claim 524, wherein y and z comprise H. --

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Amend claims 330 and 336 as follows:

Claim 330, line 1, after "wherein said" and before "step is" change "incorporating" to -- providing -- .

Claim 336, line 1, after "wherein said" and before "step is" change "incorporating" to -- providing -- .

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